THE

BOTANICAL MAGAZINE;

O R,

Flower-Garden Difplayed :

IN WHICH

The most Ornamental FOREIGN PLANTS, cultivated in the Open Ground, the Green-House, and the Stove, are accurately represented in their natural Colours.

TO WHICH ARE ADDED,

Their Names, Clafs, Order, Generic and Specific Characters, according to the celebrated LINNÆUS; their Places of Growth, and Times of Flowering:

TOGETHER WITH

THE MOST APPROVED METHODS OF CULTURE.

A W O R K

Intended for the Ufe of fuch LADIES, GENTLEMEN, and GARDENERS, as wifh to become fcientifically acquainted with the Plants they cultivate.

By WILLIAM CURTIS,

Author of the FLORA LONDINENSIS.

VOL. XIV.

" No tree that is of count in greenewood growes,

" From loweft Juniper to Cedar tall;

" No flowre in field, that daintie odour throwes,

" And deckes his branch with bloffomes over all,

" But there was planted or grew naturall :"

SPENSER.

L O N D O N:

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PLATYLOBIUM FORMOSUM. LARGE-FLOWERED FLAT-PEA.

Class and Order. DIADELPHIA DECANDRIA.

Generic Character.

Cal. campanulatus, quinquefidus, laciniis duabus fupremis maximis, obtufis. Legumen pedicellatum compressum, dorfo alatum, polyspermum.

Specific Character and Synonyms.

PLATYLOBIUM formofum foliis cordato-ovatis, germine pilofo. Smith Linn. Tranf. v. 2. 350. Bot. New Holl. tab. 6. Cheilococca apocynifolia. Salifb. Prod. 412.

All the plants of this family as yet known are natives of New Holland; the genus derives its name from the breadth of its pod or feed-veffel, and was eftablifhed by Dr. SMITH, in the fecond volume of the *Tranfactions of the Linnæan Society*, where the prefent fpecies, the only one then known, is defcribed under the name of *Platylobium formofum*, or *Orange Flat-Pea*; a figure of it has been fince given by the fame author, in the fecond number of a work, entitled *The Zoology and Botany* of New Holland.

The feeds of this plant having been among the first of those imported from Botany-Bay, feedlings have been raised, and the plants have grown up and flowered in most collections of greenhouse plants about town; an opportunity has been thus afforded of afcertaining its beauty, and it must be confessed there are few papilionaceous flowers more handsome, the buds in particular are inexpressibly rich in colour, these are produced from June to August, but are rarely succeeded by ripe feeds in this country.

In raifing this fpecies, recourfe is generally had to foreign feeds, for cuttings are not eafily ftruck; great difficulty alfo attends the rearing the feedlings, as they are very apt to go off when young, when they advance in fize they generally grow more freely; we have obferved the plant to fucceed very well with fome, while others fcarcely have been able to keep it alive.

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TRILLIUM ERECTUM. UPRIGHT TRILLIUM.

Class and Order.

HEXANDRIA TRIGYNIA.

Generic Character.

Cal. 3-phyllus. Cor. 3-petala. Bacca trilocularis.

Specific Character and Synonyms.

TRILLIUM erectum flore pedunculato erecto. Linn. Syft. Veg. ed. 14. Murr. p. 349. Sp. Pl. ed. 2. p. 484.
SOLANUM triphyllon brafilianum. Baub. Pin. 167.
SOLANUM triphyllum canadenfe. Corn. Can. 166. t. 167.
SOLANO congener triphyllum canadenfe. Morif. bift. 3. p. 532. f. 13. t. 3. f. 7.

Of this genus only three fpecies have as yet been introduced into our gardens, viz. *feffile*, *cernuum*, and *erectum*, all natives of North-America, all collected by Mr. MILLER, and defcribed in his dictionary: they are rare plants in this country, and will continue to be fo, as they require much attention to their culture, and admit of but little increase from their roots; the *Tr. feffile*, already figured in the Magazine, is the most common, the *cernuum* next, and the prefent species the most rare, which, though not mentioned in the *Hort. Kew*. we have feen in the collection at Kew.

CORNUTUS gives a good figure of it, which is copied in MORISON.

It is a hardy, perennial, herbaceous plant, growing to the height of about nine inches, producing its flowers in May; it requires to be planted in a fhady and fomewhat moift fituation, either in peat earth, pure light loam, or a mixture of both.

The roots of these plants, which are of the tuberous kind, might no doubt be raifed with care from foreign feeds, but the process would be tedious, and the plants have fearcely sufficient beauty to compensate for the trouble.

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ERICA MEDITERRANEA. MEDITERRANEAN HEATH.

Class and Order.

OCTANDRIA MONOGYNIA.

Generic Character.

Cal. 4-phyllus. Cor. 4-fida. Filamenta receptaculo inferta. Antheræ apice 2-fidæ pertufæ. Capf. 4-locularis, 4-valvis, polyfperma.

Specific Character and Synonyms.

ERICA mediterranea antheris muticis exfertis, corollis ovatis, ftylo exferto, foliis quaternis patentibus, floribus fparfis. Linn. Syft. Veg. ed. 14. Murr. p. 370. Ait. Kew. v. 2. p. 24. Linn. Mant. p. 229.

ERICA maxima purpurascens longioribus foliis. Baub. Pin. 485. ERICA foliis corios quaternis, flore purpurascente. Baub. bist. 1. p. 356.

ERICA corios folio. 11. Cluf. bist. 1. p. 42.

Though a native of the more fouthern parts of Europe, this fpecies of Heath was unknown in our gardens till introduced by Mr. BROOKS*, fo lately as about 1765; now it is one of the most common, and will long continue to be one of the most defirable; in a few years it acquires the height of four or fix feet, is very upright and handfome in its growth, and from March to May its branches are loaded with a profufion of lively bloffoms.

In our account of *Erica herbacea*, page 11, we expreffed fome doubts whether it and the *mediterranea* might not be one and the fame fpecies, as they accorded in many refpects; from examining them more attentively, we are fatisfied that they are perfectly diffinct: the *herbacea*, if left to itfelf, is low and fpreading, the *mediterranea* tall and upright; the flowers in the *mediterranea* are fhorter and more ovate, and have a degree of fragrance wanting in those of the *herbacea*; the filaments do not project fo far, but the ftyle farther; the *herbacea* bloffoms at least a month earlier than the *mediterranea*; to these differences we may add, that the *herbacea* is perfectly hardy, while the *mediterranea* is liable to be killed in fevere feasons, and is therefore usually kept in the greenhouse.

This species is easily struck from cuttings and easily preferved.

* Hort. Kew.

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ALOE PERFOLIATA, var. SUCCOTRINA. SUCCOTRINE ALOE.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.

Cor. erecta, ore patulo, fundo nectarifero. Filam. receptaculo inferta.

Specific CharaEter and Synonyms.

- ALOË perfoliata foliis caulinis dentatis amplexicaulibus vaginantibus, floribus corymbofis cernuis pedunculatis fubcylindricis, var. & Succotrina. Ait. Kew. v. 1. p. 466.
- ALOË vera foliis longiffimis et angustiffimis marginibus spinosis, floribus spicatis. Mill. Dist.

The figure here given was drawn in January 1799, from a plant in full bloom in the dry flove of the Apothecaries Garden at Chelfea; Mr. FAIRBAIRN informs me that it flowers regularly every year: the plant itfelf, fuppofed to be fifty years old, has a flem the thicknefs of one's arm, naked for the fpace of about four feet from the ground, then dividing into feveral large heads, formed of the leaves growing in clufters, from the centre of which arife the flowering-flems, two feet or more in length, producing fpikes of flowers frequently much longer than those reprefented on the plate; these before they open are upright, when fully blown they hang down, and when out of bloom they turn upwards.

This undoubtedly is the *Aloë vera* of MILLER, and the *perfoliata var. fuccotrina* of Mr. AITON, that which produces the Succotrine Aloes of the fhops, and is faid to grow in the Ifland of Zocotra or Socotora, in the Straits of Babelmandel; it is therefore highly interefting as a medicinal plant, and very defirable as an ornamental one.

Is propagated by offsets, which it does not produce in any great plenty, and to have it in perfection, it must be treated as a dry-ftove plant.







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PLINIA PEDUNCULATA. PEDUNCULATED PLINIA.

Class and Order.

ICOSANDRIA MONOGYNIA.

Generic Character.

Cal. 4. f. 5-partitus. Petala 4-5. Drupa supera, sulcata.

Specific Character and Synonyms.

 PLINIA pedunculata floribus tetrapetalis pedunculatis: flaminibus receptaculo infertis. Linn. Mant. p. 243.
 PLINIA pedunculata floribus pedunculatis polyandris. Linn.

Suppl. 253. Ait. Kew. v. 2. p. 166.

MYRTUS brasiliana. Sp. Pl. 674.

EUGENIA uniflora. Sp. Pl. 673.

PHILADELPHUS? arborescens foliis myrtinis, nitidis oppositis, ramulis gracilibus, pedunculis bipartitis alaribus. Brown Jam. 240. The Silver Tree.

The *Plinia pedunculata*, in its foliage and flowers, bears a great refemblance to fome varieties of the Myrtle, of which genus LINN ÆUS, following others, at first made it a species; on this account it may be regarded, in a certain degree, as an ornamental plant, it is moreover a very rare one: its flowers yield a confiderable fragrance, much like that of the Orange bloffom.

It is a native of the Brazils, and also of Jamaica, according to Dr. BROWN, and others: was cultivated here by Mr. MILLER, in 1759.

Our drawing was made January 18, 1799, from a plant in the tan flove of the Apothecaries Garden at Chelfea, which has been there a great number of years, and is now become a fmall tree, covered every year with a profusion of bloffoms, which in fome feasons have been followed by fruit.

The branches of this tree are flender, and covered with a light-coloured bark : the leaves ovate, oppofite, firm, gloffy, entire,

entire, somewhat contracted near the point, which is obtuse, ftanding on fhort foot-stalks, and turning black : the flowers are placed on large footftalks, which ufually come out in pairs: the Calyx is deeply divided into four fegments, which quickly turn back : Petals four, white, fcarce perceptibly edged with hairs, turning back with the calyx, and quickly falling: Stamina numerous, inferted into the bafe of the calyx, which forms a kind of fquare receptacle; these also foon fall off, leaving the calyx and ftyle ftanding: Germen fmall, ufually imperfect.

Dr. BROWN, in his Hiftory of Jamaica, fays, " this little " tree is frequent in the red hills, and remarkable for its " flender branches and myrtle leaves; it is now commonly " called Red-wood by the negroes, and is looked upon as a " good timber wood, but it feldom grows above four or five " inches in diameter."

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RHODORA CANADENSIS. CANADIAN RHODORA.

Class and Order.

DECANDRIA MONOGYNIA.

Generic Character.

Cal. 5-dentatus. Cor. 3-petala. Stam. declinata. Caps. 5-locularis.

Specific Character and Synonyms.

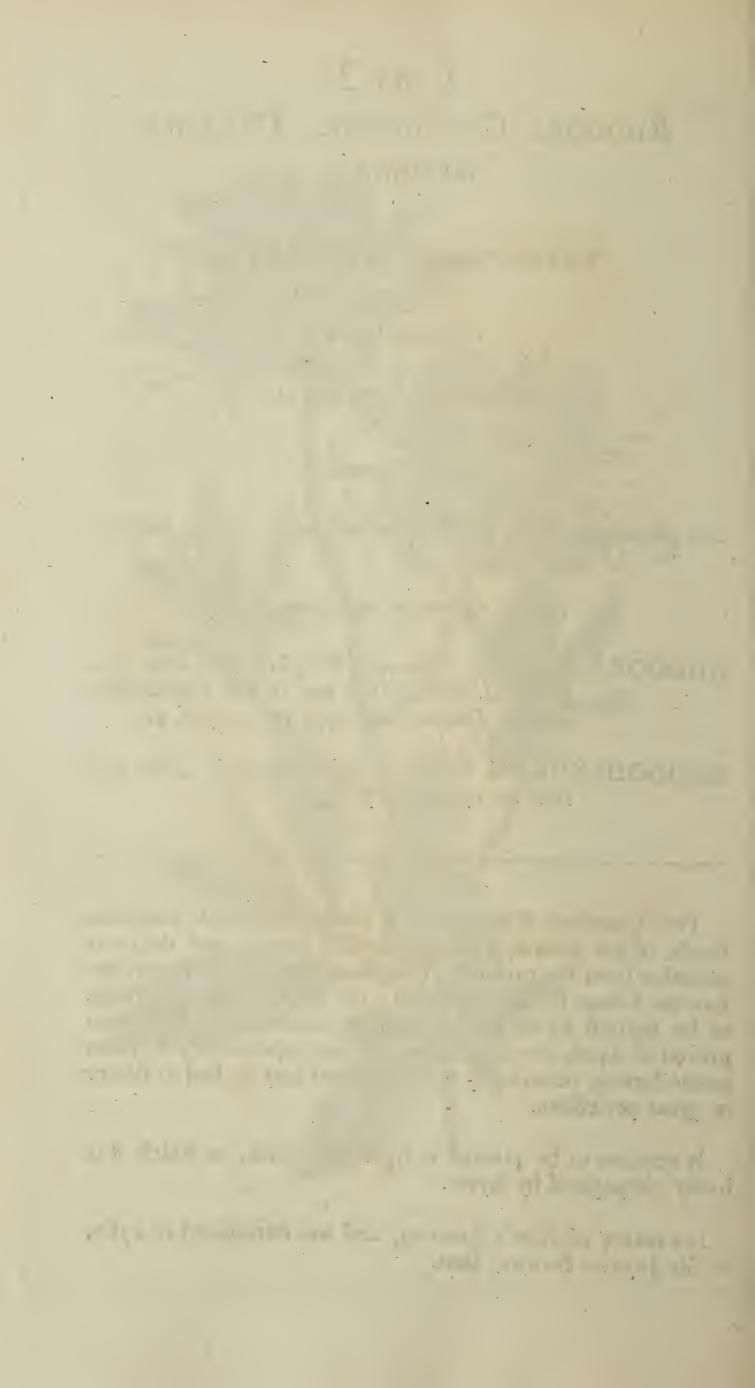
R'HODORA canadensis. Linn. Sp. Pl. 561. Ait. Kew. v. 2. p. 66. L'Herit. Stirp. nov. t. 68. Chamærhododendros. Duham. Sem. app. 10. t. 27. f. 2.

RHODODENDRUM Rhodora, corollis tripetalis. Linn. Syst. Nat. ed. 13. Gmel. p. 694.

The Canadian Rhodora is a hardy deciduous American fhrub, of low growth, and confiderable beauty, and the more defirable from the earlinefs of its flowering, which occurs before the foliage is fully expanded; the bloffoms are very liable to be injured by the cutting eafterly winds which fometimes prevail in April, the ufual time of their appearance; it bears gentle forcing remarkably well, and thus may be had to flower in great perfection.

It requires to be planted in light bog earth, in which it is freely propagated by layers.

Is a native of North-America, and was introduced in 1767, by Sir JOSEPH BANKS, Bart.







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PULTENÆA STIPULARIS. SCALY PULTENÆA.

Class and Order.

DECANDRIA MONOGYNIA.

Generic Character.

Cal. quinquedentatus, utrinque appendiculatus. Cor. papilionacea, alis vexillo brevioribus. Legumen uniloculare difpermum.

Specific Character.

PULTENÆA *flipularis* foliis linearibus mucronulatis fubciliatis, flipulis folitariis binerviis laceris. Smith Bot. New-Holland, t. 35.

The name of *Pultenæa* has been given to this genus by Dr. I. E. SMITH, in honour of WM. PULTENEY, M. D. of Blandford in Dorfetfhire, whofe various writings have fo effentially contributed to the introduction and eftablifhment of Linnean Botany in this country, and to the promotion of the ufeful arts connected with Botany, more efpecially Agriculture. It takes the name of *ftipularis*, from its ftalk being covered with fcale-like ftipulæ.

Seeds of this fpecies having been introduced to this country with fome of the first productions of New-Holland, the plant has flowered in feveral collections near town; we first faw it at Mr. BARR's, Nurferyman, Ball's-Pond, near Newington-Green. It is but feldom, however, that this species can be brought to blossom, or even be kept alive here for any length of time, if treated in the way that greenhouse plants usually are; possibly it would succeed better with a warmer regimen.

It flowers in April and May, and is to be raifed only from imported feed.

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INDIGOFERA PSORALOIDES. LONG-SPIKED INDIGO.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Cal. patens. Cor. carina utrinque calcari subulato patulo. Les gumen lineare.

Specific Character and Synonyms.

INDIGOFERA pforaloides foliis ternatis lanceolatis, racemis longiffimis, leguminibus cernuis. Linn. Syft. Veg. ed. 14. Murr. p. 677. Ait. Kew. v. 3. p. 67.
 CYTYSUS pforaloides. Linn. Sp. Pl. 1043.
 CYTISUS africanus. Riv. Tetr. 71. f. 135.

TRIFOLIUM æthiopicum ex alis spicatum. Pluk. Phyt. 320, f. 3.

The plant here figured is the true Indigof. pforaloides of LINNÆUS, a native of the Cape, and cultivated by Mr. MIL-LER, in 1758; there is another fpecies fomewhat fimilar to it, of much larger growth, and more recently introduced, frequently fold for it in the nurferies about town.

Though cultivated fo long fince in this country, the plant is far from common; it is of fmall growth: its flowers, produced from July to September, are of a lively purple colour, and ufually fucceeded by feeds, whereby the plant is increased, as also by cuttings.

Such as wilh to see a minute description of it, may consult MURRAY's, viz. the 14th edit. of the Syst. Veg. Linn.







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PELARGONIUM CRASSICAULE. THICK-STALKED CRANE'S-BILL.

Class and Order.

MONADELPHIA HEPTANDRIA.

Generic Character.

Cal. 5-partitus : lacinia fuprema definente in tubulum capillarem nectariferum fecus pedunculum decurrentem. Cor. 5petala irregularis. Filam. 10 inæqualia quorum 3 (raro 5) castrata. Fructus 5-coccus, rostratus : rostra spiralia introrsum barbata.

Specific Character and Synonym.

PELARGONIUM crassicaule umbellis multifloris, foliis reniformibus obacuminatis, caule carnofo ramoso lævi. L'Herit. Geran. n. 77. t. 26. Ait. Kew. v. 2. p. 428.

Amidft that variety of appearance obfervable in the plants of this extensive family, feveral are diftinguished by having ftalks remarkably thick, and fless from which circumstance the prefent species has been named by Monf. L'HERITIER, the first describer of it, *crassicale*; it is not less obviously diftinguished by its singularly species of a filvery hue; its bloss are white, with a few minute purple dots at the base of the petals, and, in the original species, not very beautiful, but in the variety here figured, species, not very the petals are not only of a considerable species, but on the middle of each there is a spot of the richest purple, which appearing on a ground of the purest white, produces the finest imaginable effect.

The *Pelargonium crafficaule* was first discovered by Mr. ANT. HOVE, on the fouth-west coast of Africa, and was introduced to the Royal Garden at Kew* in 1786; the variety here figured was first possefied by Messers. GRIMWOOD and Co. Kensington.

It requires a drier and warmer fituation than the greenhoufe ufually affords; flowers in June and July, is of flow growth, and propagated by cuttings, but with difficulty; it rarely ripens its feeds, and if it were raifed from them, the fame beautiful variety might not be produced.

Ait. Hort. Kew.

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PHLOMIS LEONURUS. LION'S-TAIL PHLOMIS.

Class and Order.

DIDYNAMIA GYMNOSPERMIA.

Generic Character.

Cal. angulatus. Cor. labium superius incumbens compressum villosum.

Specific Character and Synonyms.

- PHLOMIS Leonurus foliis lanceolatis ferratis calycibus decagonis decemdentatis muticis, caule fruticofo. Linn. Syst. Veg. ed. 14. Murr. p. 540. Mant. 412. Ait. Kew. v. 2. p. 309.
- STACHYS africana frutescens angustifolia flore longissimo phœniceo Leonurus dicta. Morif. Hist. 3. p. 383. f. 11. t. 19. f. 17.

LEONURUS Capitis bonæ spei. Breyn Cent. 171. t. 86. LEONURUS africana. Mill. Ditt.

DESCR. Rifes with a fhrubby ftalk feven or eight feet high, fending out feveral four-cornered branches garnifhed with oblong narrow leaves, acutely indented on their edges, hairy on their upper, and veined on their under fide, ftanding oppofite; the flowers are produced in whorls, each of the branches having two or three of thefe whorls toward their ends; they are of the labiate kind, fhaped fomewhat like thofe of the deadnettle, but are much longer and covered with fhort hairs; they are of a golden fcarlet colour, fo make a fine appearance: the flowers commonly appear in October and November, and fometimes continue till the middle of December, but are not fucceeded by feeds here.

Is propagated by cuttings, which if planted the beginning of July, after the plants have been exposed to the open air long enough to harden, will take root very freely; when they have taken root, each cutting is to be planted in a feparate pot filled with fost loamy earth and treated as a greenhouse plant, taking care to give it plenty of water in dry weather. *Mill. Ditt.*

It is a native of the Cape and other parts of Africa; was cultivated in Chelfea garden in 1712. Ait Kew.

LINNÆUS remarks in his Mantissa, that it is the most shewy of the genus.







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GEROPOGON GLABRUM. SMOOTH GERO-POGON, OR OLD-MAN'S-BEARD.

Class and Order.

SYNGENESIA POLYGAMIA ÆQUALIS.

Generic Character.

Recept. fetofo-paleaceum. Cal. fimplex. Sem. disci pappo plumoso; radii 5-aristato.

Specific Character and Synonyms.

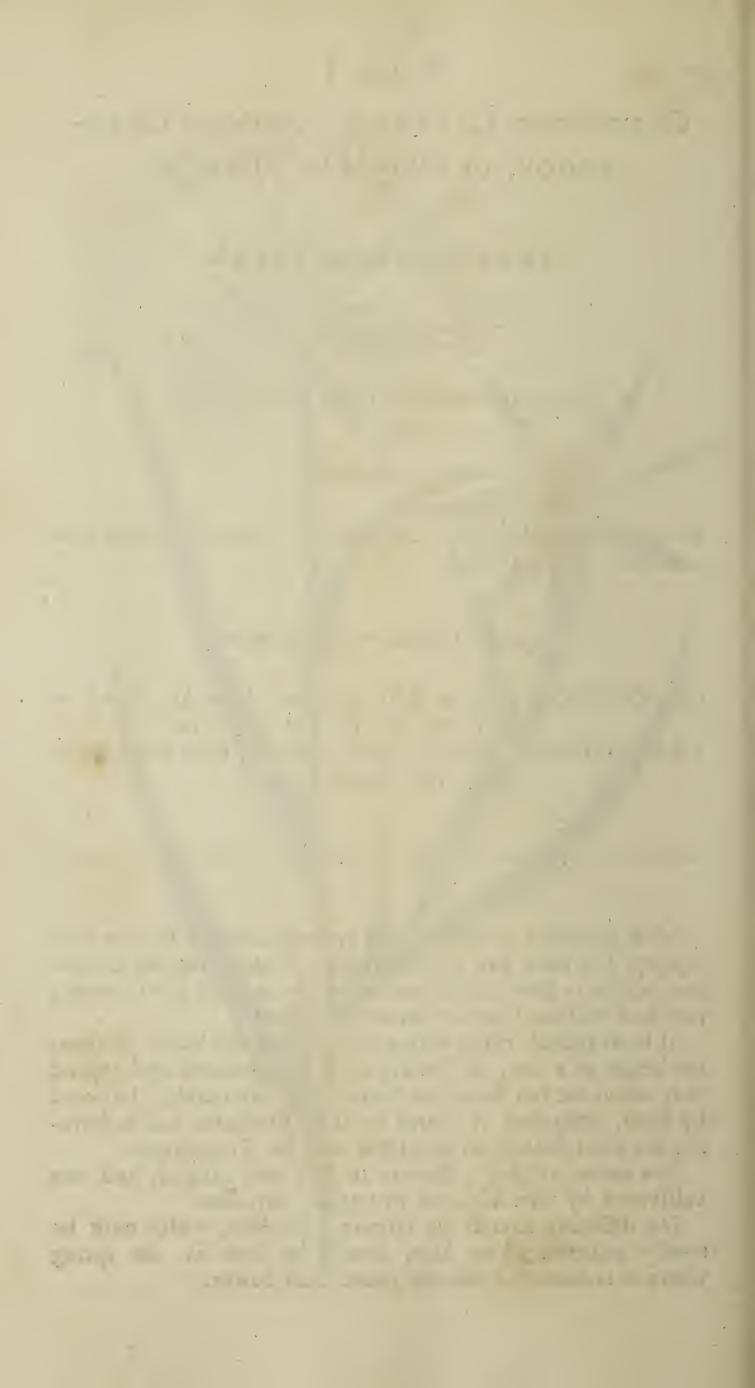
GEROPOGON glabrum foliis glabris. Linn. Sp. Pl. ed. 2. p. 1109. Ait. Kew. v. 3. p. 110. TRAGOPOGON gramineo folio, glabrum, flore dilute incarnato. Raii Suppl. 149.

Most Botanists have seen, and are acquainted with, the Tragopogon, few have had an opportunity of observing the Geropogon, which is here introduced more on account of its being a rare and curious than an ornamental plant.

It is an annual, rifing with a fmooth ftem and leaves to about the height of a foot, its flowers are flefh-coloured, and expand only when the fun fhines on them; they are quickly followed by feeds, deferving of notice for their ftructure, and as forming the chief diffinction betwixt it and the Tragopogon.

Is a native of Italy, flowers in July and August, and was cultivated by Mr. MILLER in 1759. Ait. Kew.

No difficulty attends its culture; its feeds, which must be timely gathered when ripe, should be sown in the spring where it is intended that the plants shall flower.







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ERICA PUBESCENS. DOWNY-FLOWERED

HEATH.

Class and Order.

OCTANDRIA MONOGYNIA.

Generic Character.

Cal. 4-phyllus. Cor. 4-fida. Filamenta receptaculo inferta. Antheræ apice bifidæ pertufæ. Capf. 4-locularis, 4-valvis, polyfperma.

Specific Character and Synonyms.

- ERICA pubescens antheris bifidis inclusis, corollis subovatis pubescentibus, foliis quaternis linearibus hispidis. Linn. Sp. Pl. ed. 2. p. 506.
- ERICA pubescens antheris aristatis, corollis ovatis, stylo incluso, foliis quaternis scabris, floribus seffilibus lateralibus. Linn. Syst. Veg. Murr. ed. 14. p. 365.
- ERICA pubescens aristata foliis ternis quaternisque linearibus scabris floribus umbellatis villosis. Thunk. Prodr. p. 73.

There are two Heaths very generally cultivated in the nurferies about town, agreeing in many refpects, but differing in fize and hairinefs, which have been regarded as varieties of each other and called by wrong and inexpreffive names; to us they appear, on an accurate examination, to be diffinct fpecies: the better to elucidate them, we have figured and defcribed them both in the fame number, regarding the fmaller one as the *pubefcens* of LINNÆUS, its hairinefs being of the flighter kind, the other as a diffinct fpecies, under the name of *birtiflora*, from the fuperior roughnefs of the hairs on its bloffoms; the Linnean defcription will indeed apply to either.

The *birtiflora* is much the largeft plant, growing ufually to twice the fize of the other, and is as much diffinguished by its bushy as the *pubescens* is by its twiggy appearance; the *birtiflora* is in all its parts more ftrongly haired, both in stalks, leaves, and flowers; the form of the leaves is fomewhat alike in both, convex above and concave beneath; but in the *pubescens* the leaves are narrower, the edges being rolled further back, fo as to make the cavity or concave part almost linear, and to form a fort of *folium canaliculatum*; there is not much difference

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ERICA HIRTIFLORA. ROUGH-FLOWERED HEATH.

Class and Order.

OCTANDRIA MONOGYNIA.

Generic Character.

Cal. 4-phyllus. Cor. 4-fida. Filamenta receptaculo inferta. Antheræ apice bifidæ pertufæ. Cap/. 4-locularis, 4-valvis, polyfperma.

Specific Character.

ERICA birtiflora antheris bifidis inclusis, corollis subovatis hirtis, foliis quaternis linearibus hispidis, marginibus ciliatis.

in the general hairinefs of the leaves, excepting that the hairs in the *birtiflora* are ftronger and more numerous, while in the *pubefcens* they form more of a tuft at the extremity; but there is a very curious and ftriking difference in the hairs on the underfide of the leaves, in the *birtiflora* the edges are ciliated or fringed with a row of finer hairs, pointing inwards, which are altogether wanting or fcarcely vifible in *pubefcens*; there is not much difference in the fructification, the flowers of *birtiflora* are at leaft one-fourth larger than in those of *pubefcens*, and the horns of the antheræ are more ftrongly haired: the glands at the base of the ftamina, of a reddish colour, are very visible in the *pubefcens*.

Both these species, natives of the Cape and recently introduced, flower from the autumnal to the spring months, and contribute more than almost any two other Heaths to enliven the greenhouse during the winter half-year.

The *pubefcens* in particular is eafily propagated by cuttings, and may be kept in a well-fecured frame; the more air is admitted to it in fuitable weather, the healthier will be the plant, and the more vivid the colour of its flowers.

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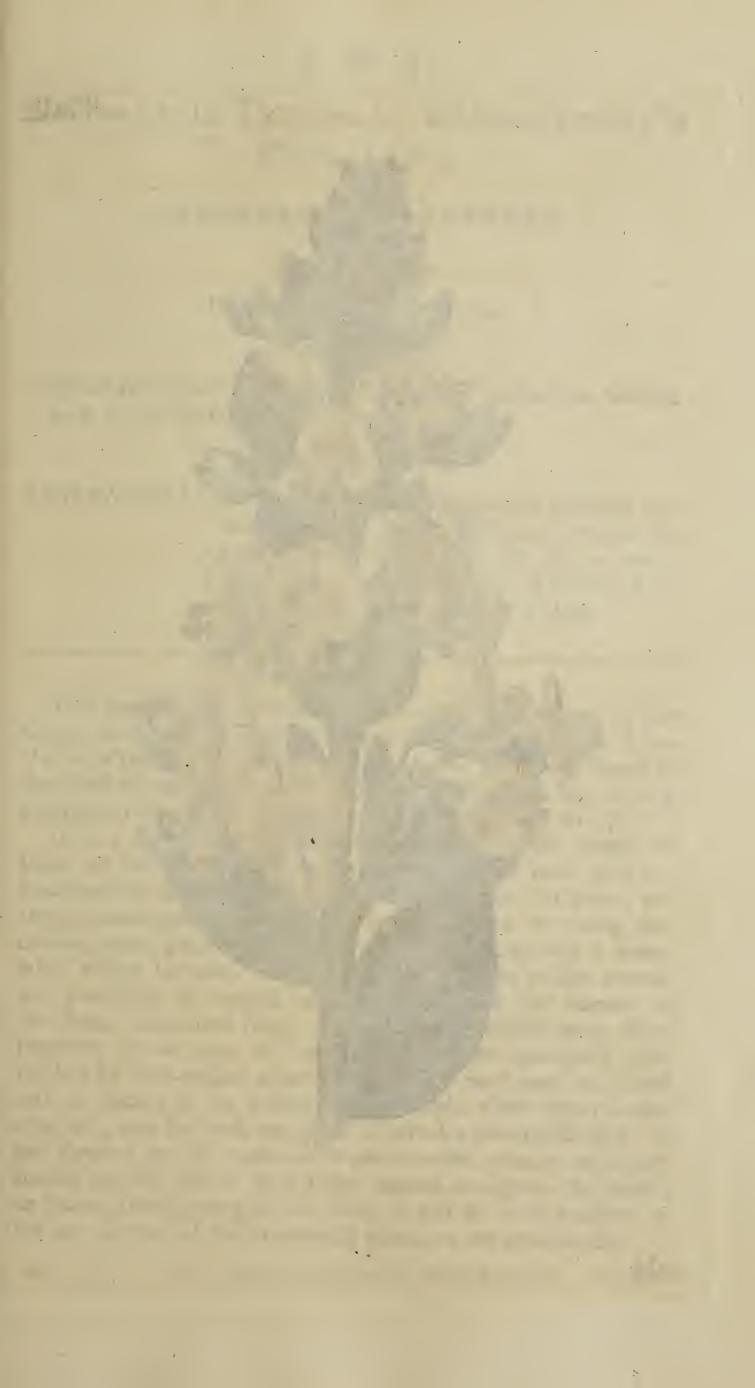
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CROTALARIA TRIFLORA. THREE-FLOWER'D CROTALARIA.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Legumen turgidum inflatum pedicellatum. Filamenta connata cum fiffura dorfali.

Specific Character.

CROTALARIA triflora foliis fimplicibus ovatis feffilibus glabris, ramis angulatis, pedunculis ternis lateralibus unifloris. Linn. Sp. Pl. p. 1004. Mant. 440. Berg. Cap. 193. Ait. Kew. v. 3. 19. Syst. Veg. ed. 14. Murr. p. 649.

This very elegant species of *Crotalaria* is a native of the Cape, described by BERGIUS in his *Pl. Capenses*; by LIN-NÆUS in the second edition of the *Sp. Pl.* and to be found in the third volume of the *Hort. Kew.* to which garden Mr. AITON informs us that it was introduced by Mr. MASSON in 1786.

It is a biennial greenhoufe plant, rifing to the height of three or four feet, with a ftrong and for the moft part unbranched ftem, ufually naked in its lower part; its leaves are large, uncommonly handfome when the plant is young, becoming more glaucous as it advances, and acquiring a fomewhat rough furface; its flowers, of a bright yellow colour, are produced in August and September, on the fummit of the ftem, they ftand fingly on peduncles, which grow three together in the alæ of the leaves, and are generally fucceeded by feed-veffels containing for the most part one feed only in each; if the feason be favourable, these ripen in the open air, and by these the plant is raised without difficulty: as the flowers go off, both calyx and corollæ change to a dark brown colour, which in a flight degree disfigures the plant : to fecure the ripening of the feed, it will be most prudent to fet one or two of the forwardest plants in the greenhouse.

Mr.

Mr. ANDREWS has lately published this plant, under the name of Borbonia cordata, referring to the Species Plantar. of LINNEUS for description and fynonyms, with none of which does it in the leaft accord (see below); had Mr. ANDREWS made it a new species of Borbonia, he might perhaps have been justified from the structure of the seed-vessel, which it does not appear he had feen when the plant was drawn.

BORBONIA cordata foliis cordatis inultinerviis integerrimis. Linn. Sp. Pl. GENISTA africana frutescens rusci foliis nervosis fl. luteo. Seb. Thef. 1. p. 38. t. 24. f. 3.

PLANTA leguminosa æthiopica foliis rusci. Breyn. cent. t. 28.

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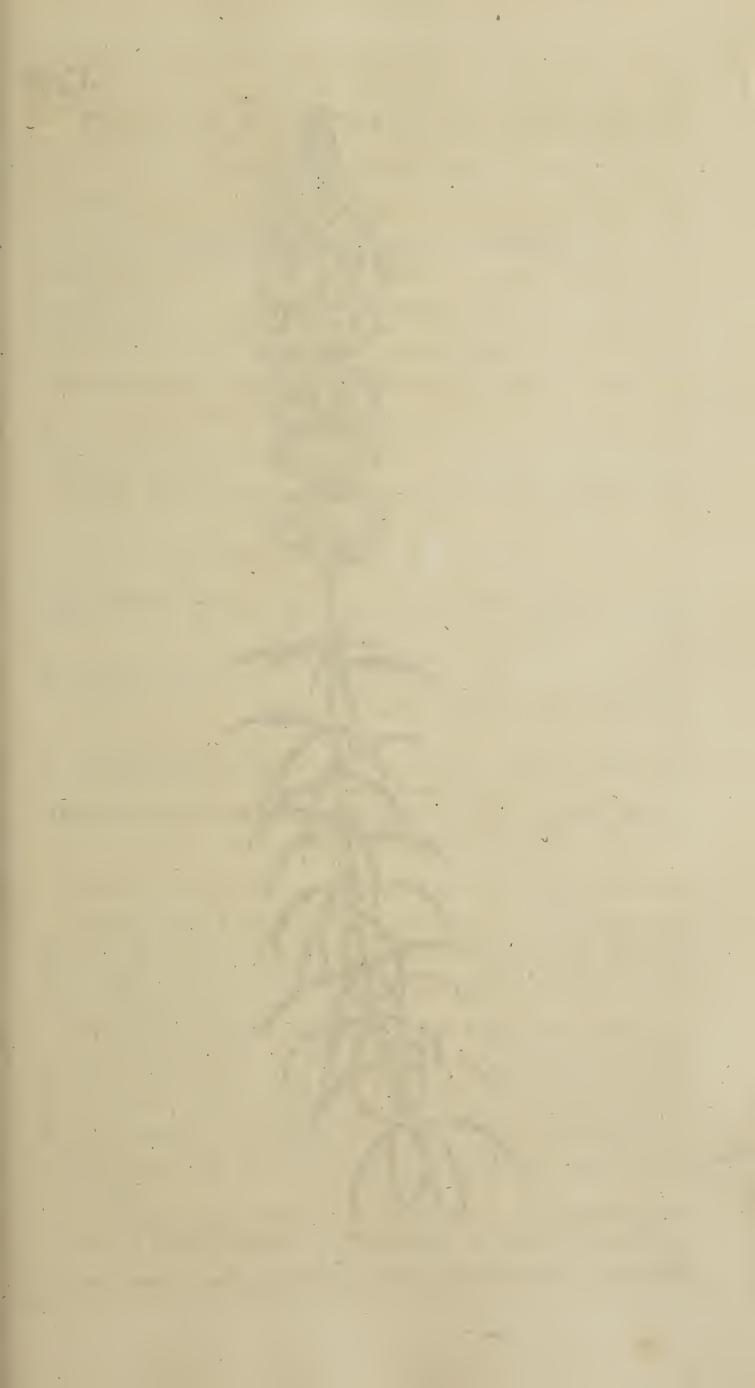
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[483]

HEBENSTRETIA DENTATA. TOOTHED HEBENSTRETIA.

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-Class and Order.

DIDYNAMIA ANGIOSPERMIA.

Generic Character.

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Cal. 2-emarginatus, subtus fissus. Cor. 1-labiata lab. adscendente, 4-fido. Caps. 2-sperma. Stam. margini limbi corollæ inserta.

Specific Character and Synonyms.

HEBENSTRETIA dentata foliis linearibus dentatis, spicis lævibus. Linn. Syft. Veg. 570. Ait. Kew. v. 2. p. 356. VALERIANELLA africana, foliis angustis, flore macula ru-

bicante notato. Comm. Hort. 2. p. 247. t. 109.

VALERIANOIDES flore monopetalo, semine unico oblongo. Raii Suppl. 245.

PEDICULARIS foliis angustissimis dentatis, floribus spicatis. Burm. afric. 114. t. 42. f. 2.

To this genus LINNEUS gave the name of Hebenstretia, in honour of Joh. ERNST HEBENSTREIT, Professor of Medicine at Leipfic, who travelled into Africa, and published Definitiones Plantarum in 1731.

The prefent species, a native of the Cape, and introduced in 1770 by Monf. RICHARD, is now very generally met with in our greenhouse collections; it accords but indifferently with the name of dentata, the leaves being for the most part fo flightly toothed, that the indentations are fcarcely difcernible; it appears to vary in this respect, and perhaps runs into the integrifolia.

It is fingular and pretty, but not fhewy; produces its fpikes of flowers from February to November, fo that it is in bloom

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the greatest part of the year: it is usually increased by cuttings, and is very liable to be lost, hence it becomes necessary to have several pots of it in different fituations.

LINNÆUS tells us, that the flowers in the morning are without fcent, at noon they are flinking and naufeous, in the evening ambrofial like the oriental hyacinth : having neglected to pay due attention to this circumftance, we can neither confirm nor contradict it, but we fufpect that the different odours it is faid thus to diffufe are not very powerful. We take this opportunity of mentioning a fact relative to the *Manulea* tomentofa, which we had not difcovered when we figured that plant; its flowers, which in the day-time have very little fcent, late in the evening give forth a moft penetrating and unpleafant one, fo as to make a fmall greenhoufe highly difagreeable.

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[484]

ERICA CILIARIS. CILIATED HEATH.

Class and Order.

OCTANDRIA MONOGYNIA.

Generic Character.

Cal. 4-phyllus. Cor. 4-fida. Filamenta receptaculo inferta. Antheræ apice 2-fidæ, pertufæ. Capf. 4-locularis, 4-valvis, polysperma.

Specific Character and Synonyms.

- ERICA ciliaris antheris muticis inclusis, corollis ovatis groffis, stylo exferto, foliis ternis, racemis secundis. Linn. Syst. Veg. ed. 14. Murr. p. 368. Ait. Hort. Kew. v. 2. p. 20.
- ERICA ciliaris foliis ovatis ciliatis, floribus axillaribus campanulatis: calicibus ciliatis. Linn. Syst. Nat. ed. 13. Gmel. p. 623.
- ERICA foliis ovatis ciliatis ternis, corollis ovatis apice tubulofis irregularibus verticillato-racemofis. Lafl: it. 138. ERICA hirfuta anglica. Baub. Pin. 602.

ERICA xii. Clus. bist. 1. p. 46.

The name of *ciliaris* has been given to this fpecies of *Erica*, from the leaves being ftrongly edged with hairs; this circumftance, undoubtedly, gives a ftriking character to the plant; there are other fpecies, however, to which the fame term would apply-with equal propriety; but we must not be too nice on fuch points, provided the name be not bad in itfelf: the irregularity of the flower, as noticed by LOEFLING, vid. Synon. forms a more remarkable trait.

This fpecies, a native of Spain and Portugal, and therefore hardy enough to bear the open air of this country in mild winters, was introduced, according to Mr. AITON, about the year 1773; it grows to the height of feveral feet, and, if judicioufly treated, produces abundance of large purple flowers from July to September.

Though it is usual to plant this species in bog earth in the open border, to guard against accidents, it will be proper to keep a few of them in pots, and set them in the greenhouse during winter.

It is a plant of ready growth, and ftrikes readily from cuttings. C. BAUHIN, miftakenly, calls it *anglica*, which has given rife to the idea of its being an English plant, but it is not.

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BIGNONIA RADICANS. ASH-LEAVED TRUMPET-FLOWER.

Class and Order.

DIDYNAMIA ANGIOSPERMIA.

Generic Character.

Cal. 5-fidus, cyathiformis. Cor. fauce campanulata, 5-fida, fubtus ventricosa. Siliqua 2-locularis. Sem. membranaceo-alata.

Specific Character and Synonyms.

 BIGNONIA radicans foliis pinnatis : foliolis incifis, caule geniculis radicatis. Linn. Syst. Vegetab. ed. 14. Murr. p. 563. Ait. Kew. v. 2. p. 348.
 PSEUDO-GELSEMINUM filiquofum. Riv. Mon. 101.

PSEUDO-APOCYNUM hederaceum americanum tubulofo flore phœniceo, fraxini folio. Monf. Hift. 3. p. 612. J. 15. t. 3. f. 1.

It is difficult to afcertain precifely when this beautiful climber was introduced to this country from North-America, its native place of growth; it was evidently cultivated here by PARKINSON in 1640, as in his *Th. Botan.* he defcribes it minutely, and adds, "this never bore flower with mee, nor "any other that hath it in our country that I could heare of:" we may from hence infer, that at this period it could not have been long or generally cultivated, as the plant blows freely enough at a certain age; MILLER fays, in feven or eight years from feed.

The authors who first described this plant, called it by various names; PARKINSON, in criticifing on some of these, is betrayed into an illiberality altogether inconfistent with his usual candour and gravity: "neither yet," fays he, "doe I "entitle it Gelseminum hederaceum Indicum, as that good "French goose doth, whose horned name is prefixed to his "worke of great judgement, no doubt to make it bear an "ivy title that hath so little refemblance thereto;" alluding to CORNUTUS, who calls it by that name, and who most probably meant no more by *hederaceum*, than the fimilarity which the the plant bore to Ivy in its manner of attaching itself to trees, buildings, &c. and in which he was perfectly justified.

This deciduous climber is very hardy, and will mount to the fummit of the higheft tree, or fpread over the loftieft wall; hence it is recommended by MILLER for covering buildings which are unfightly: in the months of August and September it puts forth its rich magnificent trumpet-like flowers, in bunches at the extremities of its pendent branches, which produce the most charming effect imaginable; one of the finess trees (for fuch it is in reality) that we have feen of this fort, grows against the houss of Dr. LEITH, near the hospital, Greenwich; there is a very old tree of it also, at the Apothecaries garden, Chelsea, the stem of which is the thickness of one's wrist.

It fucceeds beft when trained to the wall of fome building, and fupports itfelf by putting out roots in the manner of Ivy; but thefe roots, as in that plant, do not we believe contribute to its nourifhment: it may alfo be trained up againft the ftems of tall and fomewhat naked trees, and, if managed with tafte and judgment, will make a charming appearance when in flower.

"It is propagated by feeds (which rarely, we believe, or never ripen with us) but the young plants for raifed do not flower in lefs than feven or eight years, therefore those which are propagated by cuttings or layers from flowering plants are most efteemed, because they will flower in two or three years after planting. The old plants also fend out many fuckers from the roots, which may be taken off, and transfplanted where they are to remain, for these plants will not transplant fafely if they are old.

"The neceffary culture for thefe plants after they are eftablifhed, is to cut away all the fmall weak fhoots of the former year in winter, and fhorten the ftrong ones to about two feet long, that young fhoots may be obtained for flowering the following fummer; thefe plants are of long duration. There are fome in gardens which have been planted more than fixty years, which are now very vigorous, and produce flowers in plenty every feafon." Mill. Dit.

The Bignonia radicans minor has by many been confidered as a variety of the plant here figured, but it differs fo effentially in many particulars, that it feems to be entitled to be regarded as a fpecies; there is an old plant of it and the major growing near together in Chelfea garden, in which we have obferved that the minor is a much finaller plant, more difpofed to throw out roots from its flems, infinitely lefs inclined to flower, varying greatly in the form of its leaves and in the fize and colour of its bloffoms, and upon the whole much lefs ornamental and defirable.





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SYRINGA PERSICA. PERSIAN LILAC.

Class and Order.

DIANDRIA MONOGYNIA.

Generic Character.

Cor. 4-fida. Caps. bilocularis 3-valvis supera.

Specific Character and Synonyms.

SYRINGA perfica foliis lanceolatis integris. Linn. Syft. Veg. ed. 14. Murr. p. 57. Ait. Kew. vol. 1. p. 15.
SYRINGA babylonica, indivifis denfioribus foliis. Pluk. Alm. 359. t. 227. f. 8.

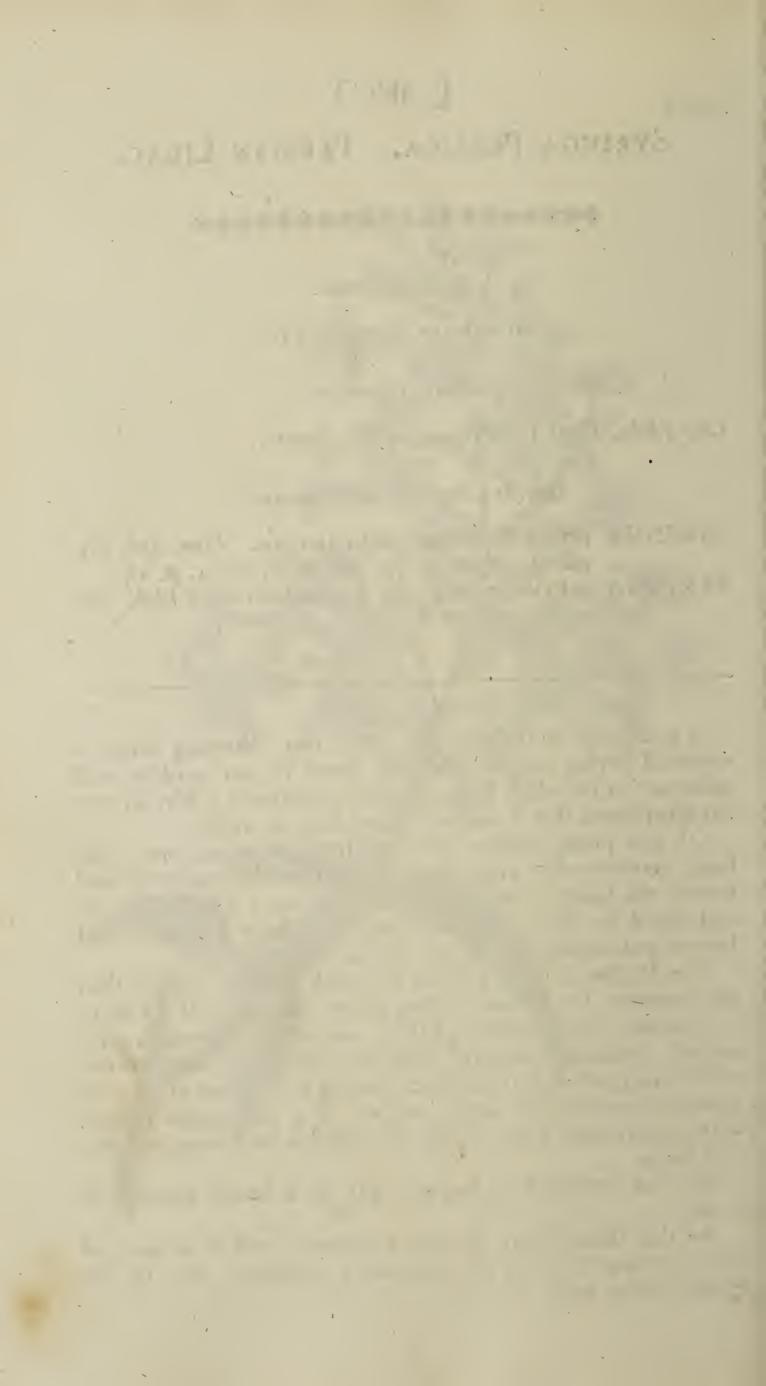
It is difficult to fay precifely when this charming fhrub, a native of Perfia, now fo generally found in our gardens, and unknown to the older Botanists, was introduced; Mr. AITON has afcertained that it was cultivated here in 1658.

Of this plant, authors defcribe three varieties, one with blue, another with white flowers, and another with divided leaves, the latter confidered by MILLER as a diffinct fpecies, and called by him *laciniata*, appears to have been the first known and introduced by the Perfian name of Agem.

The Perfian Lilac is a fhrub of much humbler growth than the common fort, feldom rifing above the height of fix feet; its branches are flender, pliable, and widely extended, frequently bending downward from the weight of the flowers, which are produced from the beginning to the end of May in panicles uncommonly large, and are of a pale purple colour, with an agreeable fcent, going off without producing any perfect feeds.

May be increased by suckers, but in a better manner by layers.

As this fhrub bears forcing extremely well, it is one of those principally used for decorating windows, &c. in the fpring of the year.







Jule [487]

GLADIOLUS LINEATUS. PENCILLED CORN-FLAG.

Class and Order.

TRIANDRIA MONOGYNIA.

Generic Character.

Cor. 6-partita, ringens. Stamina adscendentia.

Specific Character and Synonym.

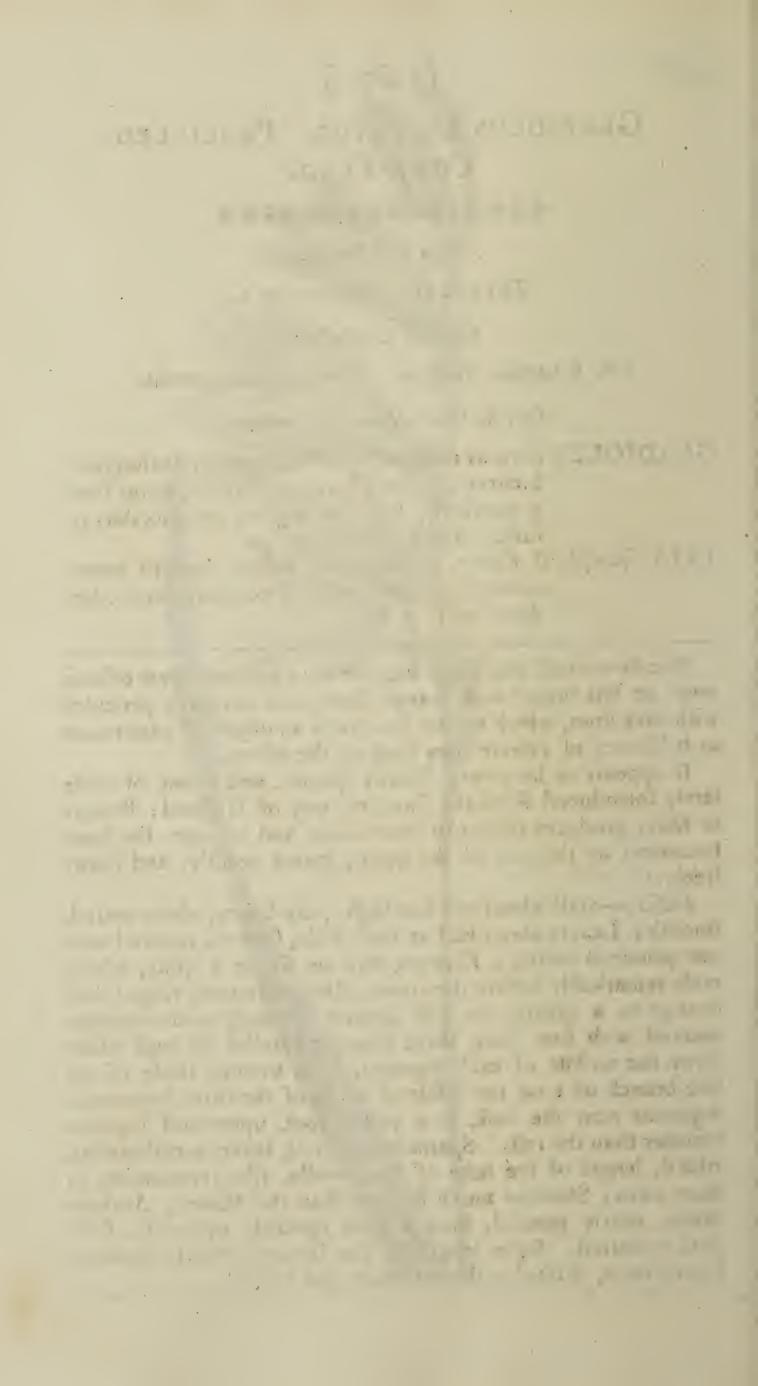
GLADIOLUS lineatus corollæ limbo tubo quadruplo longiore, incurvo patente; laciniis ellipticis, extus lineis 3 parallelis, fuprema majore, exterioribus retufis. Salifb. Prod. pag. 40.

IXIA fqualida β Variet. ftriɛta, foliis ftriɛtis, laminis ovatooblongis integerrimis basi concoloribus. Hort., Kew. v. 1. p. 61.

The flowers of this Corn-flag are of a delicate ftraw colour, more or lefs tinged with orange, finely and curioufly pencilled with dark lines, which render it as much an object of admiration as brilliancy of colour does fome of the others.

It appears to be a very diffinct fpecies, and is one of those lately introduced from the Cape by way of Holland; flowers in May, produces offsets in abundance, and requires the fame treatment as the reft of the genus, grows readily, and blows freely.

Defcr.—Stalk about two feet high, leafy below, above round, fmooth; Leaves about half an inch wide, fmooth, marked with one principal midrib; Flowers, five or fix in a fpike, which nods remarkably before they open, ftraw-coloured, tinged with orange in a greater or lefs degree, ftrongly and curioufly marked with fine lines, three running parallel to each other down the middle of each fegment, from whence those of the fide branch off; on the infide of each of the three lowermost fegments near the bafe, is a yellow fpot, uppermost fegment broader than the reft. Spatha two-leaved, leaves membranous, ribb'd, length of the tube of the corolla, ribs terminating in fhort awns; Stamens much fhorter than the flower; Anthers linear, nearly parallel, bent a little upward, yellowish, fides dark-coloured; Style length of the ftamens, trifid, fegments bowed back, dilated at the extremity and villous.







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RHODODENDRON CHAMÆCISTUS, THYME-LEAVED RHODODENDRON.

Class and Order.

DECANDRIA MONOGYNIA.

Generic Character.

Cal. 5-partitus. Cor. subinfundibuliformis. Stam. declinata. Capf. 5-locularis.

Specific Character and Synonyms.

RHODODENDRON foliis ciliatis, corollis rotatis. Linn. Spec. Pl. ed. 2. p. 562. Jacq. Fl. Auftr. t. 217. Scop. Fl. Carniol. ed. 2. n. 481.

LEDUM foliis ferpylli ad margines cilii inftar pilofis, flore purpureo. Mich. Gen. p. 225. tab. 106.

CHAMÆ CISTUS VIII. Cluf. Hift. 1. p. 76.

CHAMÆCISTUS IV. Cluf. Pan. 64.

CHAMÆCISTUS hirfuta. C. B. Pin. 466.

CHAMÆRHODODENDRON berberis folio flore amplo rofeo. Gmel. Sibir. 4. p. 126.

CISTUS chamærhododendros foliis confertis ferrea rubigine nitentibus, margine pilofis. Pluk. Alm. 106. tab. 23. f. 4.?

For this very rare and beautiful little plant we are indebted to Mr. LODDIDGES, Nurferyman, at Hackney, who raifed feveral of them from feeds fent him ten or twelve years ago, from Laubach, in Auftria, by a friend who gathered them on the extreme tops of the Crain mountains.

It is a plant of very flow growth and difficult culture, which must always make it a great rarity. It flowers in April, is kept in bog-earth in a sheltered situation and Northern aspect.

The Ciftus Chamærhododendros of PLUKENET is, perhaps, intended for fome other plant, as the leaves of this are perfectly free from any ferruginous appearance.

As, perhaps, few English Botanists have seen the Rhododendron Chamæcistus in flower, the following description may not be unacceptable. It rifes with several diffuse branched stalks, stalks, fcarcely a fpan high, thickly clothed with finall ovate fleshy leaves, smooth on each fide, ciliated at the edge; when young, they appear ferrated with a gland-bearing hair to each tooth; but as they grow older they become more fleshy, the notches difappear, and the glands at the extremity of the hairs perifh. The Flower-Stalks about an inch long, hairy with glands, grow three or four together from the extremity of the branch, having two fmall concave bracteæ at the bafe, and bearing each one flower. The Calyx is five-cleft, the fegments conniving, lanceolate-oval. The Corolla of one petal, deeply divided into five fegments, which are ovate, entire, and rotate, of a lively purple colour, fpotted at the bafe. Filaments ten, equal, longer than the corolla, incurved towards the tip, white; Anthers black, attached at the fide; Pollen white. The Germ is hemifpherical, of a green colour; the Style white, of an equal length or fomewhat exceeding the stamens; the Stigma simple and green. The Seed-Veffel we have not feen.





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SPIRÆA TRIFOLIATA. THREE-LEAVED SPIRÆA.

Class and Order.

ICOSANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-fidus. Petala 5. Caps. polyspermæ.

Specific Character and Synonyms.

SPIRÆA trifoliata foliis ternatis ferratis fubæqualibus, floribus fubpaniculatis. Sp. Plant. 702.

ULMARIA major, trifolia, flore amplo pentapetalo, virginiana. Pluk. alm. 393. t. 236. f. 5. Raii Suppl. 330. ULMARIA virginiana trifolia, floribus candidis amplis longis et acutis. Morif. Hift. 3. p. 323.

To this genus both the flower-garden and fhrubbery are indebted for fome of their chief ornaments. Of the hardy herbaceous fpecies the *trifoliata* is confidered as one of the most elegant; when it grows in perfection it certainly is a most delectable plant.

It is a native of North America, flowers in June and July, and was cultivated by Mr. MILLER, in 1758. Ait. Kew.

Being a plant much coveted, increasing but little, propagated with difficulty, and liable to be lost unless planted in a foil and fituation highly favourable to it, it is fcarce in the gardens about London.

It is ufually increased by parting its roots; poffibly these might grow when made cuttings of. MILLER fays it is propagated by feeds, which should be fown on a shady border, soon after they are ripe; for if they are sown in the spring, the plants will not come up till the year after, and many times fail; they will require to be very carefully weeded and attended to.

The best situation for this plant is a North border; it loves moisture, and should be planted in light bog or peat-earth, or a mixture of it and a pure hazel loam.

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CROTALARIA JUNCEA. CHANNEL'D-STALK'D CROTALARIA.

Class and Order.

DIADELPHIA DECANDRIA.

Generic Character.

Legumen turgidum, inflatum, pedicellatum. Filam. connata cum fiffura dorfali.

Specific Character and Synonyms.

CROTALARIA juncea foliis fimplicibus lanceolatis petiolatofeffilibus, caule striato. Spec. Pl. 1004. Ait. Kew. 3. p. 18.

CROTALARIA foliis folitariis Îanceolatis lanuginofis, petiolis feffilibus, caule ramofo ftriato, flore magno aureo. Trew. Ehret. tab. 47. p. 15. Katou Tandala Cotti. Hort. Malabar. v. 9. p. 47. t. 26.

This annual is a native of the Eaft-Indies; the feeds were brought to Mr. MILLER, at Chelfea-Garden, from the coaft of Malabar before 1768, *Ait. Kew.* It rifes with an angular, rufhy, ftiff ftem, from three to four feet in height, dividing into branches. The leaves are oblong-lanceolate, alternate, covered with foft filvery hairs, which are much diminifhed in number by culture, as we found on comparing a native fpecimen from the coaft of Coromandel, in the pofferfion of Sir JOSEPH BANKS, Bart. The flowers are terminal, and difpofed in racemes, each flower being furnifhed with a fhort peduncle, they are large, of a deep yellow, and refemble those of the Spanish Broom.

These are succeeded by large turgid pods, containing reniform or kidney-shaped seeds. This plant requires the treatment of the tan-stove.

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GENTIANA VERNA. VERNAL GENTIAN.

Class and Order.

PENTANDRIA DIGYNIA.

Generic Character.

Cor. 1-petala. Capf. 2-valvis, 1-locularis: Receptaculis 2, longitudinalibus.

Specific Character and Synonyms.

GENTIANA verna, corolla quinquefida infundibuliformi caulem excedente, foliis radicalibus confertis majoribus. Linn. Spec. Pl. p. 331.

GENTIANA VI. Cluf. Rar. Plant. Hift. Lib. III. p. 315.

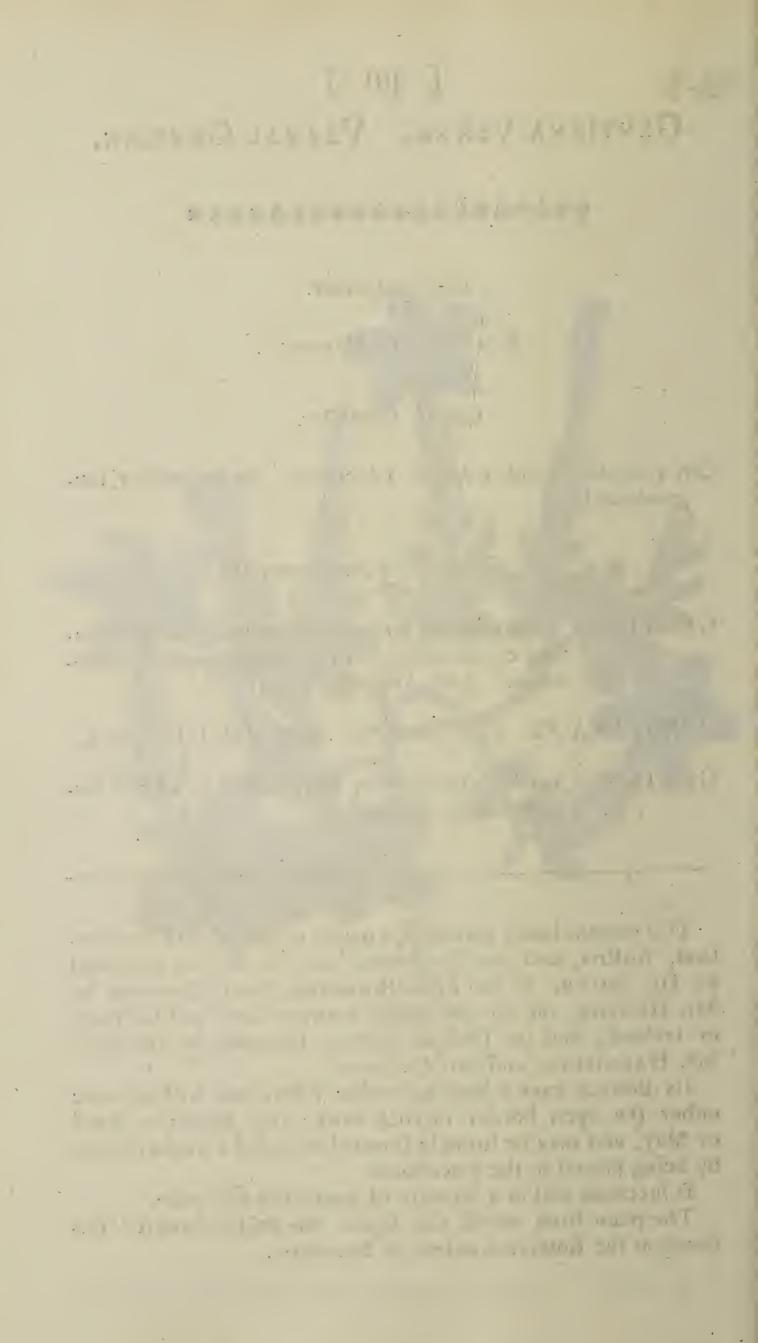
GENTIANA verna. Smith. Flor. Brit. v. 1. p. 285. English Botany, p. 493.

This elegant hardy perennial, a native of the Alps of Switzerland, Auftria, and the Pyrennees, hath, as we are informed by Dr. SMITH, in his Flora Britannica, been difcovered by Mr. HEATON, on the mountains between Gort and Gallway, in Ireland; and in Teefdale-Foreft, Durham, by the Rev. Mr. HARRIMAN, and Mr. OLIVER.

Its flowers have a very agreeable fcent, and will decorate either the open border or rock-work; they appear in April or May, and may be brought forward at leaft fix weeks earlier, by being placed in the greenhouse.

It fucceeds well in a mixture of peat-earth and loam.

The plant from which this figure was made, flowered this fpring at the Botanic-Garden, at Brompton.







[492]

POLYGALA OPPOSITIFOLIA. OPPOSITE-LEAV'D MILK-WORT.

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Class and Order.

DIADELPHIA OCTANDRIA.

Generic Charaeter.

Cal. 5-phyllus: foliolis duobus alæformibus coloratis. Legumen obcordatum, biloculare.

Specific CharaEter and Synonym.

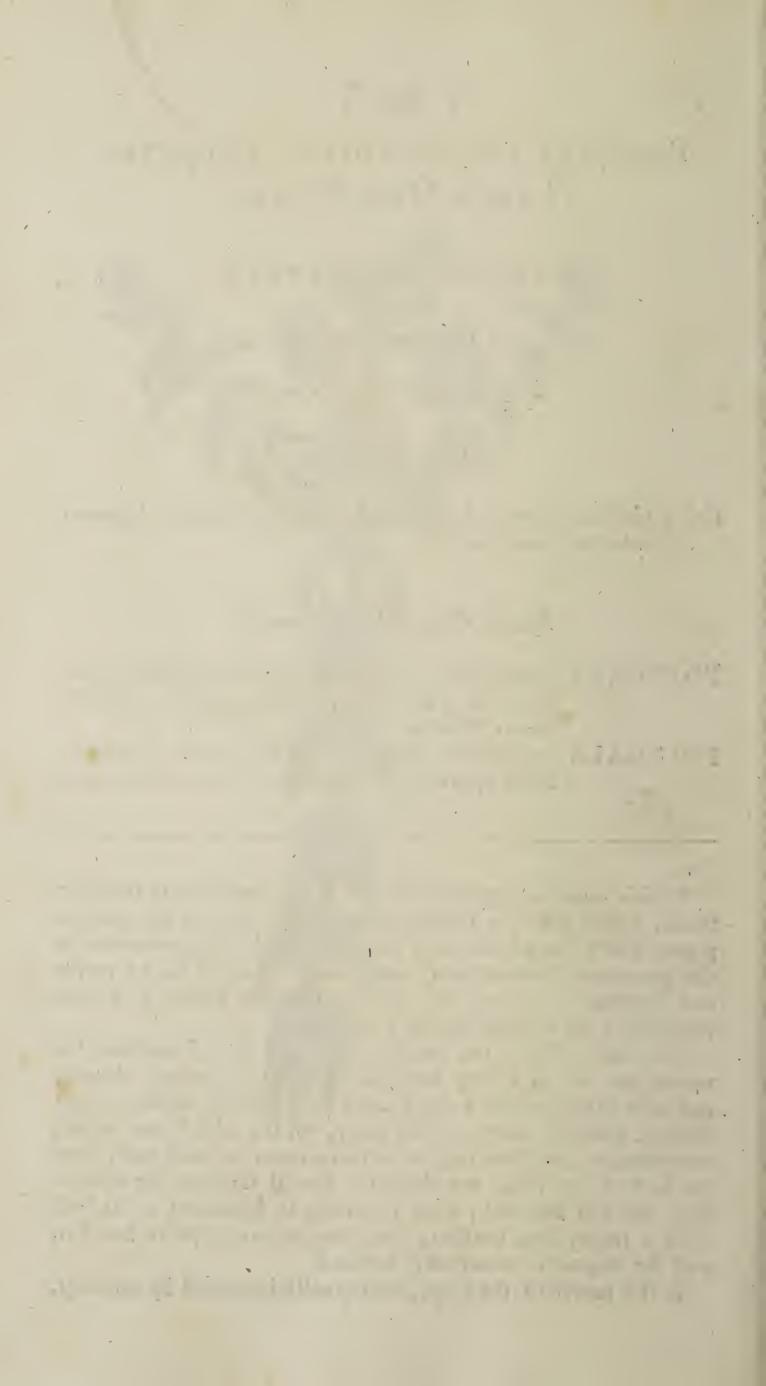
POLYGALA oppositifolia, floribus cristatis racemosis, caule fruticoso pubescente, foliis oppositis cordatis acutis seffilibus.

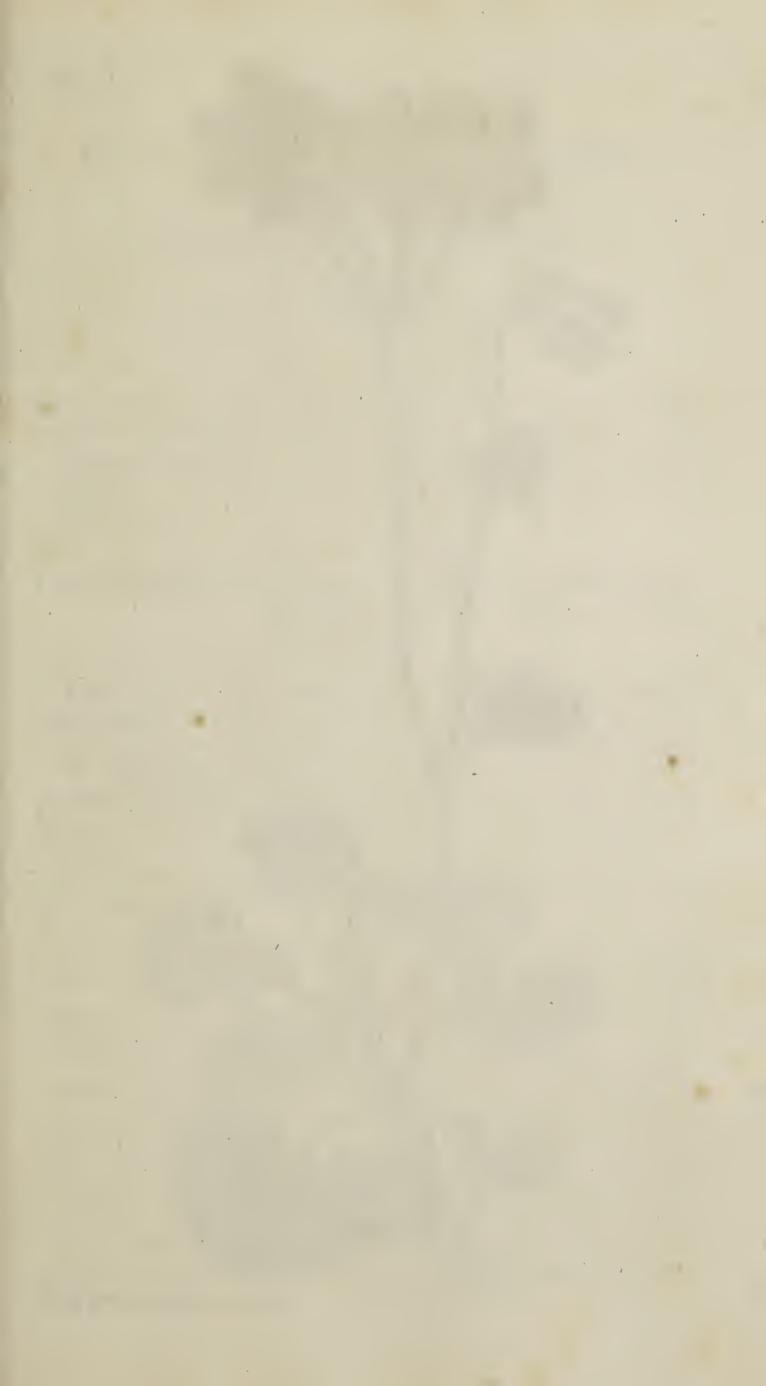
POLYGALA oppositifolia floribus cristatis, caule fruticoso, foliis oppositis ovatis acutis. Linn. Mant. 259.

Of this numerous genus there are many species with shrubby ftalks, which rife to a confiderable height; such is the prefent plant, which has within these few years made its appearance in the greenhouses about town, and is to be admired for its rarity and singularity, rather than for its superior beauty; in that respect it is far eclipsed by the *brateolata*.

The Stalk rifes to the height of feveral feet, branching towards the top in a very irregular manner; is round, downy, and of a purple colour; the Leaves are oppofite, feffile, heartfhaped, pointed, more or lefs hairy, on the old ftems turned downwards; the Flowers grow in racemes for the moft part, from the fork of the ftalk, are about the fize of those of the bratteolata, but lefs brilliant; each Peduncle is furnished at its base with a triphyllous bractea; the Stamens are eight in number, and the Stigma is remarkably hooked.

It is a native of the Cape, and usually increased by cuttings.







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PELARGONIUM RENIFORME. KIDNEY-LEAV'D CRANE'S-BILL.

Class and Order.

MONADELPHIA HEPTANDRIA.

Generic Character.

Cal. 5-partitus : lacinia suprema definente in tubulum capillarem, nectariferum secus pedunculum decurrentem. Cor. 5-petala irregularis. Fil. 10 inæqualia :, quorum 3 (raro 5) castrata. Fructus 5-coccus, rostratus : rostra spiralia, introrsum barbata.

Specific Character.

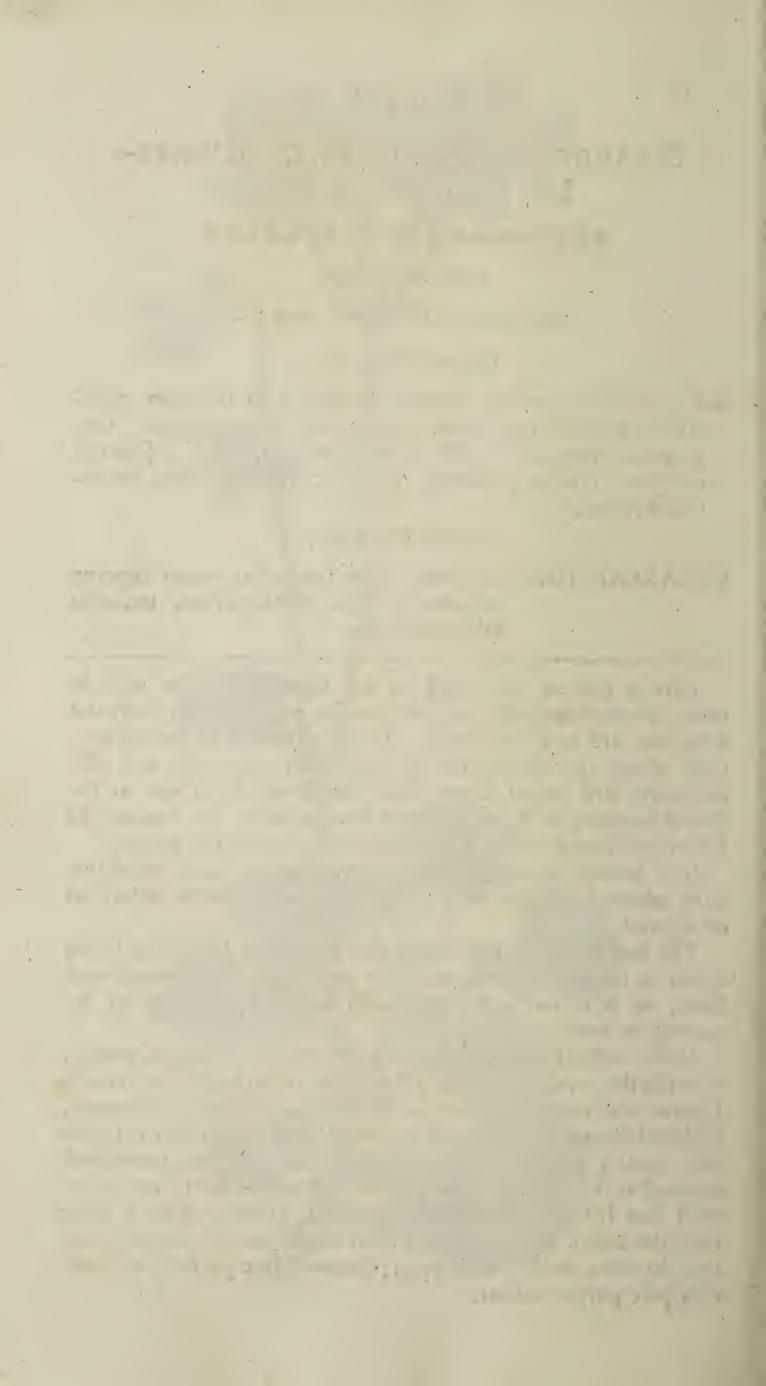
PELARGONIUM reniforme caule fruticofo: ramis fuperne incraffatis, foliis reniformibus, umbellis fubquadrifloris.

This is one of the rareft of the Geranium tribe with fo many fpecies of which our greenhoufes, and even our halls and windows, are now decorated. It has appeared in feveral gardens about the metropolis for thefe two years paft, and was, probably, first raised from feeds fent from the Cape to the Royal Garden, at Kew, a fource from whence the beauties of Flora are spread with a bountiful hand through the nation.

It is known in most of the nurseries by the name which we have adopted, but has not, we believe, been hitherto described or figured.

The beft mode of cultivating this plant is by fowing its feeds, either in the fpring or autumn, in a mixture of peat-earth and loam, as it is not eafily increased either by cuttings or by parting its roots.

Defcr.—Stalk from two to three feet or more in height, woody, towards the tops of the young branches remarkably thickened; Leaves alternate, ftanding on footftalks, reniform, crenated, flightly fragrant; Flowers in an umbel from two to four: Petals five, nearly equal, very bright purple, the two uppermoft marked at the bafe with dark fpots or ftreaks, the three lowermost but little fo; Peduncles upright, villous, with a joint near the bafe; Calyces having four of the leaves reflexed, one upright when the flower is open; Stamens five perfect; Anthers of a pale purple colour.







[494]

CENTAUREA RAGUSINA. CRETAN CENTAURY.

Class and Order.

SYNGENESIA POLYGAMIA FRUSTRANEA.

Generic CharaEter.

Recept. fetofum. Pappus fimplex. Cor. radii infundibuliformes longiores irregulares.

Specific Character and Synonyms.

CENTAUREA ragusina calycibus ciliatis, foliis tomentofis natifidis: foliolis obtusis ovatis integerrimis: exterioribus majoribus. Sp. Pl. 1290. Ait. Kew. v. 3. p. 259.

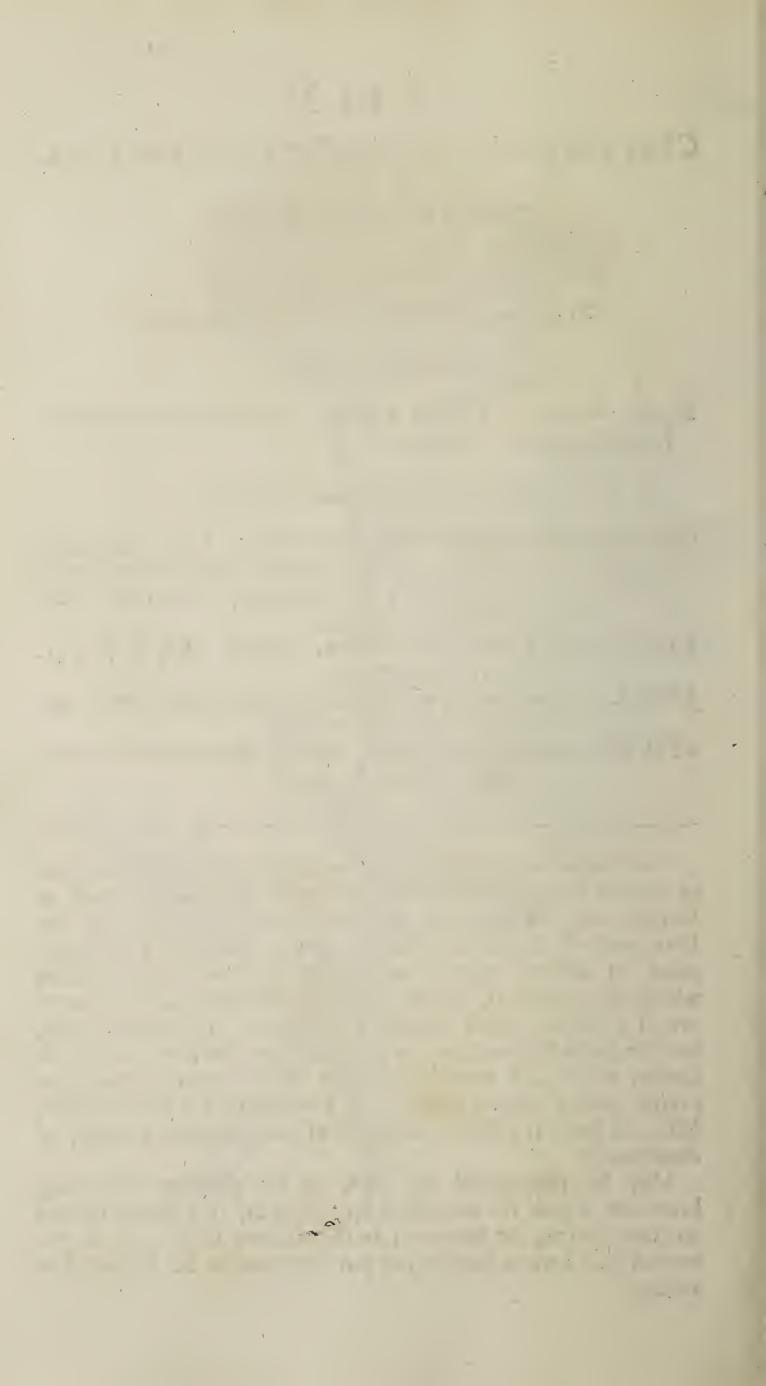
JACEA cretica lutea foliis cinaræ. Morif. - Hist. 3. p. 141. J. 7. t. 27. f. 22.

JACEA arborea argentea ragufina. Zan. Hist. 107. t. 43. Mill. Icon. t. 152. f. 1.

STŒBE montana nivea capite cardui, subrotundis foliorum lobis. Barr. Ic. 309.

The Centaurea ragufina, a native of the ifle of Candia, and of feveral places on the coafts of the Mediterranean, both in Europe and Africa, was cultivated here in 1714, by the DUCHESS of BEAUFORT, and is now a common greenhoufe plant; it feldom exceeds the height of three feet; its ftalks which are perennial, divide into many branches; the flowers are of a bright yellow colour, they appear in June and July, but the feeds feldom ripen in England: as this plant retains its leaves, which are extremely white all the year, it makes a pretty variety among others. If planted in dry lime rubbifh, MILLER fays, it will bear the cold of our ordinary winters, in the open air.

May be propagated by flips, or by planting the young branches, which do not fhoot up : lower, in a fhady border any time during the fummer; in the autumn thefe may be removed into a warm border, or put into pots to be fheltered in winter.







[495]

CRASSULA COCCINEA. SCARLET-FLOWERED CRASSUL'A.

Class and Order.

PENTANDRIA PENTAGYNIA.

Generic Character.

Cal. 5-phyllus. Petala 5. Squamæ 5, nectariferæ ad bafin germinis. Capf. 5.

Specific Character and Synonyms.

CRASSULA coccinea foliis ovatis planis cartilagineo-ciliatis, bafi connato-vaginantibus. Linn. Syft. Vegetab. ed. 14. Murr. p. 304. Mant. 360. Ait. Kew. v. 1. p. 390

COTYLEDON africana frutescens, flore umbellato coccineo. Comm. Rar. 24. t. 24. Bradl. Succ. 5. p. 7. t. 50. COTYLEDON africana frutescens flore carneo amplo. Breyn. Prodr. 3. p. 30. t. 20. f. 1.

We have no doubt but that when this fuperb fpecies of Craffula was first introduced from the Cape by Prof. BRADLEY, of Oxford, in 1714, it was regarded as a kind of a Merveil de la Nature ; even now that it is common, we fcarcely know any fucculent that is fuperior to it, whether we regard its grandeur, the curious growth of its leaves, or the rich colour of its fcarlet bloffoms, readily produced on plants of a moderate fize.

It flowers during the months of July, August, and September; is readily propagated by cuttings, and requires the same treatment as other tender fucculents; Mr. AITON regards it as a dry stove plant; in the summer it should be placed in the open air.

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HELIOPHILA ARABIOIDES. CLUB-POINTED HELIOPHILA.

Class and Order.

TETRADYNAMIA SILIQUOSA.

Generic Character.

Nectaria duo recurvata versus calycis basin vesicularem.

Specific Character.

HELIOPHILA arabioides, filiquis teretibus torulofis clavatomucronatis; foliis linearibus carnofis tridentatis fimplicibufque.

This pretty little annual, which is known in feveral of the more curious collections about town, under the name of Heliophila integrifolia, is a native of the Cape of Good Hope, from whence feveral other species of Heliophila have been imported into Europe, all of which, we believe, might be very readily characterifed by the different figure of the filiqua; but for want of a proper attention to this most effential part, much confusion has arisen in the fynonomy of those fpecies which have been already defcribed. The true integrifolia is a much larger plant, with lanceolate leaves all entire; the filiqua is compressed, which marks it to be a diffinct species. Our plant cannot be referred to any yet described, although in many respects it resembles what has been figured by JACQUIN, as a remarkable variety of integrifolia, in his Icones Rarior. t. 506. It differs, however, fo materially, that we cannot venture to quote this figure as a fynonym. It has been, therefore, necessary to give it a new specific name, and we have formed a character, which, from a careful inspection of all the species preserved in the Herbarium of Sir Joseph BANKS, appears fufficient to diftinguish it. The flowers, which are of a very brilliant colour, expand about noon and remain open but a few hours. Our figure was drawn from a plant raifed by Mr. LODDIDGE, of Hackney. It is to be raifed in the fpring, in the fame manner as other tender annuals.-S.

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QUASSIA AMARA. BITTER QUASSIA.

Class and Order.

DECANDRIA MONOGYNIA.

Generic Character.

Cal. 5-phyllus. Petala 5. Nectarium 5-phyllum. Pericarpia 5 distantia, 1-sperma.

Specific Character and Synonyms.

QUASSIA amara, floribus hermaphroditis, foliis impari-pinnatis: foliolis oppofitis feffilibus, petiolo articulato alato, floribus racemofis. Linn. Supplem. p. 235. Syft. Veget. Murray, p. 401. Linn. Spec. Plant. edit. Willdenow. tom. 2. p. 567.

This beautiful fhrub is a native of Surinam, and both in its foliage and long racemes of fine fcarlet flowers growing from the extremities of the branches, is a great ornament to the flove. It bloffoms tolerably freely, and continues flowering during great part of the fummer. The corolla is never fully expanded, but the petals having a fpiral twift, they curl round one another and open in an irregular manner. All the figures of this plant hitherto published we believe have been drawn from dried specimens, and the corolla being expanded by art, a flower has been made totally different from the natural appearance. The bark, the wood, and the root, are all intenfely bitter, and may on that account be useful in medicine; but the Lignum Quaffiæ, which has been imported in confiderable quantities, not only for pharmaceutical purposes, but as a fubflitute for hops, though formerly fuppofed to belong to this fpecies, we are informed by later observers is the product of another, the Quassia excelsa. As a native of a warm climate, it requires the common treatment of flove plants. Is increased by cuttings in the early part of the year. It was most probably introduced fince the publication of the Hortus Kewensis in 1789, as no mention is made of it in that work.







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ACHILLEA TOMENTOSA. WOOLLY MILFOIL.

Class and Order.

SYNGENESIA POLYGAMIA SUPERFLUA.

Generic Character.

Cal. ovatus, imbricatus, squamis ovatis; flosculi radii 5 vel plures; receptaculum paleaceum elevatum.

Specific Character and Synonyms.

ACHILLEA tomentofa foliis pinnatis hirfutis: pinnis linearibus dentatis. Linn. Sp. Pl. ed. 3. 1264. Ait. Kew. v. 3. p. 239.

MILLEFOLIUM tomentofum luteum. Baub. Pin. 140.

MILLEFOLIUM luteum. Ger. Herb. 945. f. 1. emac. 1073. f. 1.

This hardy perennial is a fpecies of Milfoil, a plant of very humble growth; its leaves, which are woolly, though probably much lefs fo in gardens than in their wild ftate, fpread on the ground and mat together; its ftalks feldom rife above the height of nine inches, and produce on their fummits umbels of flowers of a fine yellow colour, which continue during moft of the fummer.

Grows naturally in Spain, the South of France, the Valais, and Italy; was cultivated in the Oxford Garden in 1658.

It is well adapted to the borders of the fmall flower garden, or to place on rock-work; is a plant of very ready growth, and increased by parting its roots in the Autumn or Spring.

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ALLIUM MOLY. YELLOW GARLIC OF MOLY.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.

Cor. 6 partita patens, spatha multiflora. Umbella congesta. Caps. supera.

Specific Character and Synonyms.

ALLIUM Moly scapo nudo subcylindrico, foliis lanceolatis seffilibus, umbella fastigiata. Sp. Pl. 432. Ait. Kew: 428.

ALLIUM Moly latifolium luteum odore allii. Baub. Pin. 75.

ALLIUM Moly montanum latifolium, flavo flore. Cluf. App. Alt.

MOLY montanum latifolium luteo flore. The yellow Moly. Park. Parad. p. 144. pl. 143. fig. 7.

Of this very numerous genus there are but few fpecies with yellow flowers; this plant was therefore, no doubt, cultivated at firft as much for its fingularity as its beauty: PARKINSON figures and defcribes it in his *Parad. terr.* as he does many others of the fame tribe, in which he appears to have been very rich; he obferves that when the plant comes up with a fingle leaf, it produces no flowers, but when it has two it does. MILLER fays the *Yellow Moly* has fome beauty in the flowers, and deferves a place in borders where few better things will thrive.

Grows wild in Hungary, on Mount Baldo, about Montpellier, and in the Pyrenees; is a hardy perennial, growing to the height of ten or twelve inches, producing its flowers in umbels in the month of June; according to LOBEL was cultivated here by EDWARD LORD ZOUCH in 1604.

For the most part it increases plentifully, both by roots and feeds; but in fome fituations its bulbs are liable to be greatly injured by the wire-worm, the larva or maggot of an elater.







[500]

AGAPANTHUS UMBELLATUS. AFRICAN AGAPANTHUS, OF BLUE LILY.

Clafs and Order.

HEXANDRIA MONOGYNIA.

Generic CharaEler.

Cor. infera, infundibuliformis, hexapetaloidea regularis.

Specific Character and Synonyms.

AGAPANTHUS umbellatus. Ait. Kew. v. 1. p. 414. 509. L'Herit. Sert. 17.

CRINUM africanum. Linn. Sp. p. 419. POLYANTHES floribus umbellatis. Linn. Vir. Cliff. 29. Hort. 126. Mill. fig. 8. 10. TULBAGHIA Heist. Brunsv. 10. n. 6. MAUHLIA africana. Dabl. Obs. Bot. 26. HYACINTHUS africanus tuberofus, fl. cæruleo umbellato.

Breyn. prod. 1. 25.

Agapanthus is a name first given to this genus of plants, of which there is only one species, in the Hort. Kew. of Mr. AITON. LINN EUS and GERTNER have confidered it as a Crinum, and it will be seen by the synonyms that it has had a variety of names imposed on it by other authors.

It is a native of the Cape, and no novelty in this country, having been cultivated in the Royal Garden at Hampton-Court in 1692; it is now found in most collections of green-house plants: the nurserymen make two varieties of it, a *major* and a *minor*.

Its root is not bulbous, but composed of many thick fless fibres; the leaves are thick, about a foot long, and near an inch broad; the flowering stem, which is naked, rifes to the height of two or three seet, and produces on its summit a magnificent magnificent umbel of fine blue flowers, which come forth irregularly during the whole of the year, but more frequently from August to January.

This plant only requires protection from froft and moifture, it fhould not, therefore, have any artificial warmth in winter, at leaft no more than is neceffary to fecure it from froft (unlefs our object be to force it, which it bears admirably well) and muft be fet in the open air in fummer: at the clofe of the year, when coming into bloom, it will require the fhelter of the green-houfe.

Is propagated by offsets, which come out from the fide of the old plant, and may be taken off the latter end of June.

It will not grow and flower in perfection unlefs it have plenty of pot room, and the fpace that it thus occupies is often more than a fmall green-house can afford.

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ALETRIS CAPENSIS. WAVED-LEAVED ALETRIS.

Class and Order.

HEXANDRIA MONOGYNIA.

Generic Character.

Cor. infundibuliformis. Stamina inferta laciniarum basi. Caps. 3-locularis.

Specific Character and Synonyms.

ALETRIS capenfis, acaulis, foliis lanceolatis undulatis, fpica ovata, floribus nutantibus. Linn. Spec. Plant. p. 456. Syft. Veget. Murray, p. 336. Burm. Prod. 10.
VELTHEIMIA viridifolia, foliis lanceolatis plicato-undulatis obtufis, dentibus limbi rotundatis rectis. Linn. Spec. Plant. edit. Willdenow. tom. 2. p. 181. Jacq. Hort. Schoenb. 1. p. 41 t. 78.

The genus Aletris, as eftablished by LINNEUS, has, by GLEDITSCH, in the Berlin Transactions for 1771, been divided, and a new genus constructed under the name of Veltheimia, to which this plant belongs. But although this alteration has been adopted by WILLDENOW, in his edition of the Spec. Plant. of LINNEUS, we neverthelefs adhere to the old name, by which it has been long known in our gardens, especially as we have had no opportunity of examining with care the capfules of the different species, from some difference in which the distinction is chiefly drawn. It is a native of the Cape of Good Hope; flowers from November to April. So ornamental a plant would probably be more common, were it more eafily propagated; but it neither readily perfects its feeds, nor is it eafily increased by its roots. MILLER directs the bulbs to be planted in pots filled with light earth, that they may be sheltered in October and through the winter, and in a dry, airy glafs cafe, and fparingly watered, till May, when they may be placed abroad in a sheltered situation, and may be frequently watered in warm weather. Introduced in 1768. Ait. Kew.

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HELICONIA PSITTACORUM. PARROT-BEAKED HELICONIA.

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Clafs and Order.

PENTANDRIA MONOGYNIA.

Generic Character.

Spathæ. Cal. O. Cor. tripetala. Nectarium diphyllum. Pericarp. tricoccon. Sem. folitaria.

Specific Character and Synonyms.

HELICONIA Pfittacorum glabra, foliis lanceolatis ellipticis acuminatis, fpathis erectis lanceolatis. Bank's Ms.

HELICONIA Pfittacorum foliis caulinis bafi rotundatis, fpadice terminali flexuofo, fpathis lanceolatis, nectario lanceolato concavo integro. Swartz. Obf. 98.

This beautiful ftove plant is a native of Jamaica, growing in the mountains, in places cleared of wood, and in this fituation acquires the stature of eight feet, with leaves proportionally large. With us it rifes about three feet, with a ftraight round polifhed ftem, naked at the upper part and clothed below with fmooth fhining leaves, alternate lanceolateelliptic acuminated many-nerved, with membranaceous footstalks sheathing the stem. At a more advanced stage than that at which our drawing was taken, the top of the ftem becomes flexuous or zig-zag, and from each bend there grows an erect lanceolate concave spatha, within which the flowers grow in clusters upon short peduncles, these remain closed during the function of flowering, opening only just before they fall. The Corolla, properly speaking, is monopetalous, the whole falling off in one piece; if carefully examined it divides into five fegments, the three outermost of which are usually described as the three petals of the corolla; the two innermost form what, what, in this family of plants, LINNEUS calls the nectary. The two fuperior fegments of the corolla are nearly linear, and are firmly attached above half way along the back of the nectary; the lower one is like the upper, but more deeply grooved, embracing the edges of the nectary, from which it feparates nearly to the bafe. The Nectary confifts chiefly of one boat-shaped sharp-pointed segment, the edges of which are folded together, enclosing the stamens and style, and opening only a little way below the point to allow of the exit of the anthers and stigma: within this is likewife included, quite concealed from the eye, the fecond fegment of the nectary, which is very small, spatulate, somewhat concave, and is attached at its back to the lower part of the inferior fegment of the corolla; this fmall part is common to the genus and also to Strelitzia, and is supposed by JUSSIEU to be the rudiment of a fixth stamen. The Stamens are five. The Filaments, which are the length of the nectary, are inferted at its extreme base, and are curved at their lower end. The Anthers are formed in a fingular manner: the filament is expanded into a membrane at the upper part, and the edges being doubled in, contain within this fold a white pollen of a large fize. The Germen is obtufely three-cornered, contains three cells, and one feed in each cell. The Style is the length of the stamens. The Stigma small, downy, and hooked.

Our plant appears to be the fame as that defcribed by SWARTZ, but perhaps differs from the Heliconia Pfittacorum of the Supplementum Plantarum. Could it be fatisfactorily determined that the two fpecies are diffinct, this name, by right of priority, belongs to the other, and our's ought to have a new one; but from the many errors in the work of the younger LINNÆUS, we are led to miftruft his defcription: until, therefore, the whole genus shall be better understood, we think it right to retain the name, as adopted by SWARTZ, rather than to run the risk of increasing the confusion by changing it.

Our drawing was made from a plant which flowered in August 1800, amidst a great variety of beautiful and rare exotics, in the superb collection of E. D. WOODFORD, Esq. at Vauxhall *.

It is increased by offsets from the roots, and requires a treatment fimilar to the Strelitzia.—S.

* It flowered likewife at the fame time at JAMES ROBINSON's, Efq. at Stockwell.

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CALYCANTHUS FLORIDUS. Allspice.

CAROLINA

Class and Order.

ICOSANDRIA POLYGYNIA.

Generic Character.

Cal. 1-phyllus, urceolatus, squarrosus: foliolis coloratis. Cor. calycina. Styli plurimi stigmate glanduloso. Sem. plurima, caudata intra calycem succulentum.

Specific Character and Synonyms.

CALYCANTHUS floridus petalis interioribus longioribus. Linn. Sp. Pl. ed. 3. p. 718. Ait. Kew. v. 2. p. 220.

BUTNERIA anemones flore. Duham. arb. 1. p. 114. t. 45. BASTERIA foliis ovatis acuminatis, caule fruticolo. Mill. Dict. t. 60.

BEURERIA petalis coriaceis oblongis, calycis foliolis reflexis. Ebret. Diet. t. 13.

FRUTEX corni foliis, floribus inftar anemones ftillatæ, petalis craffis rigidis colore fordide rubente, cortice aromatico. Catefb. Carol.
 1. p. 46. t. 46.

The Calycanthus floridus is a fpreading, deciduous, hardy fhrub of low growth, feldom rifing above the height of four or five feet, producing numerous flowers from May to August, fingular in their form, colour, and scent, the latter Mr. MILLER describes as difagreeable, contrary to the general opinion; the bark has a very strong aromatic odour, whence the inhabitants of Carolina gave it the title of Allspice; it varies in the form of its leaves, hence two varieties of it are enumerated in the Hort. Kew. of Mr. AITON, 1 foliis oblongis, 2 foliis fubrotundo-ovatis.

" Mr.

" Mr. CATESBY, who first introduced it into the English gardens in 1726, procured it from the country, fome hundred miles on the back of Charles-Town in Carolina. It was very fcarce here till about the year 1757, when many plants were brought from Carolina, having been greatly increased in the gardens near Charles-Town." Mill. Dist.

Mr. MILLER gave it the name of *Basteria*, in honour of his very worthy friend Dr. JOB BASTER, under which name it is to be found in his own editions of his Dictionary.

" It is ufually propagated by laying down the young branches in Autumn, which will take root in one year, before which time they fhould not be transplanted; when taken from the mother plant they fhould be fet where they are intended to remain, for they do not bear transplanting well after they are grown to any fize; when the branches are laid they fhould be covered yearly with rotten tan to keep out the frost; when the layers are transplanted the ground should be covered with mulch, to prevent its becoming too dry, and watered in dry weather, but not too abundantly." *Mill. Dist.*

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GERANIUM ARGENTEUM. SILVER-LEAV'D CRANE'S-BILL.

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Class and Order.

MONADELPHIA DECANDRIA.

Generic Character.

Cal. 5-phyllus. Cor. 5-petala, regularis. Nect. glandulæ 5melliferæ, basi longiorum filamentorum adnatæ. Fructus 5-coccus rostratus; rostra simplicia nuda (nec spiralia nec barbata).

Specific Character and Synonyms.

GERANIUM argenteum pedunculis bifloris, foliis fubpeltatis feptempartitis trifidis tomentofo fericeis, petalis emarginatis. Linn. Syst. Veget. ed. 14. Murr. p. 617. Sp. Pl. ed. 3. p. 954.
 GERANIUM argenteum alpinum. Baub. Pin. 318.

GERANIUM argenteum montis baldi. Baub. Hift. 3 p. 474.

This extremely rare, beautiful, and hardy fpecies of Geranium, we obtained a few years fince of Mr. LODDIGES, Nurferyman, of Hackney, who we believe was the first that introduced it from Germany. It is one of the many curious plants found on the fummit of *Mount Baldus*, celebrated in the annals of Botany for its choice vegetable productions.

It is diftinguished from all our other hardy Geraniums by its filvery foliage; its flowers are large, and extremely delicate; taken altogether, when it grows and bloffoms in perfection, it may be regarded as one of the most defirable of the alpine tribes.

It bloffoms in June and July, and with us at Brompton has ripened its feeds, though in no great number; from these the plant may be raised, as also by parting its roots, but the former is the preferable mode.

It fucceeds beft kept in a pot of light fandy bog earth, taking care that it does not fuffer through want of water in fummer, nor from having too much in the winter; we need fcarcely add, that fo rare a plant, growing naturally in fo pure an atmosphere, requires, as it deferves, more than ordinary care to preferve it.

